Case study: **Boliden Minerals**

Using the ReLog to understand vibrations on mine hoists created by impacts

The Challenge

Boliden, a leading mining and smelting company based in Sweden, uses something called 'mine hoists' in their mines to transport raw materials from the mines up to the surface. These cages act as shaft conveyors for transporting gathered material 900 m to the surface and are usually completely autonomous.

Unfortunately, Boliden has noticed that the guidance system of the mine hoist has been pushed sideways which has caused unnecessary wear on the guidance system. By measuring vibrations on the cages, Boliden expected to learn where the sideways displacement is at its largest so correct measures can be taken.

Oscar Lindgren
Project Manager,
Plant Engineering

Company:
Boliden Minerals AB
www.boliden.com

Industry:
Mining, smelting

The Solution

Oscar Lindgren, Project manager of Plant engineering, realised that Boliden could use the ReLog S to record and hence detect the vibrations created by the misaligned guidance system. With this information, Oscar and his colleagues could understand where the displacement is at its largest and quickly take actions to ensure that the hoist and the shaft remains undamaged.

"*The ease-of-use of the ReLog S and the ability to quickly analyse the vibrations in VibInspect was crucial to us and enabled quick tests and immediate feedback*"
- Oscar Lindgren.

ReLog S